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dächtnis" (1862–1919) by W. Lorey, 85–88 [with portrait]—Nos. 5–6, May 20: "Die Mathematik des Lyzeums und Oberlyzeums" by E. Fettweis, 97–103; "Ueber einige Anwendungen des Satzes vom arithmetischen und geometrischen Mittel" by H. Dörrie, 103–108; "Beitrag zur Frage nach der Rationalität der Wurzeln der kubischen und der biquadratischen Gleichung" by H. Greinacher, 113–116; "Oskar Lesser" (1867–1920) by G. Wolff, 131–136 [Biographical sketch, list of publications, and portrait]—Nos. 7–8, July 20: "Beweis des Tsabît für den pythagoreischen Lehrsatz" by the late J. E. Böttcher, and edited by R. Hunger, 153–160; "Anschauliche Beweise für den erweiterten pythagoreischen Lehrsatz" by R. Hunger, 160–167.

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PROBLEMS AND SOLUTIONS.

Edited by B. F. Finkel, Otto Dunkel, and H. P. Manning.

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PROBLEMS FOR SOLUTION.

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2928.

Show that if through the end P (opposite from the origin) of the loop of (*a*) the folium of Descartes, $x^3 + y^3 = 3axy$, (*b*) the strophoid or logocyclic curve, $x(x^2 + y^2) + a(x^2 - y^2) = 0$, a straight line be drawn meeting the curve again in Q and R, then QR always subtends a right angle at the origin (compare *1916*, 90–92; also Basset, *Treatise on Cubic and Quartic Curves,* Cambridge, 1901, p. 82). Are these results particular cases of a general result for a certain class of cubic curves?

2929. Proposed by R. E. GAINES, University of Richmond.

Denote by A, O and B, respectively, the points (–1, 0), (0, 0) and (1, 0) on the curve $y^2 = x^3 - x$, and let P be a variable point on the curve. Let PA and PO meet the curve again in Q and R, respectively, and let BQ and BP meet AR in M and N, respectively. Prove that QN is perpendicular to PM.